

March Open Ended Questions

Name _____

Math for Standards

SHOW AND EXPLAIN ALL WORK!!! Date _____

This is the last OEQ worksheet you will get this year (you will still see them on the lesson worksheets and the Unit 5 Test).

1. The figure below shows the first five rows of Pascal's Triangle.
 - A. Compute the sum of the elements in each of the first five rows.
 - B. Look for a pattern in the results and develop a general rule.
 - C. Use your rule to predict the next three rows of Pascal's Triangle. Fill them in.

$$\begin{array}{c} 1 \\ 1 \ 1 \\ 1 \ 2 \ 1 \\ 1 \ 3 \ 3 \ 1 \\ 1 \ 4 \ 6 \ 4 \ 1 \end{array}$$

2. The junior class at Mitarnowski High School is raffling off a turkey as a fundraiser.
- A. If the turkey cost \$22 and raffle tickets are sold for \$1.50, how many tickets will have to be sold for the class to break even?
 - B. Create a table to show how many tickets will have to be sold if the class is to make a profit of \$20, \$50, \$100, \$200, and \$ n .